

TEXAS HISTORICAL COMMISSION

real places telling real stories

Managing the Transition from Restoration Back to County Responsibility





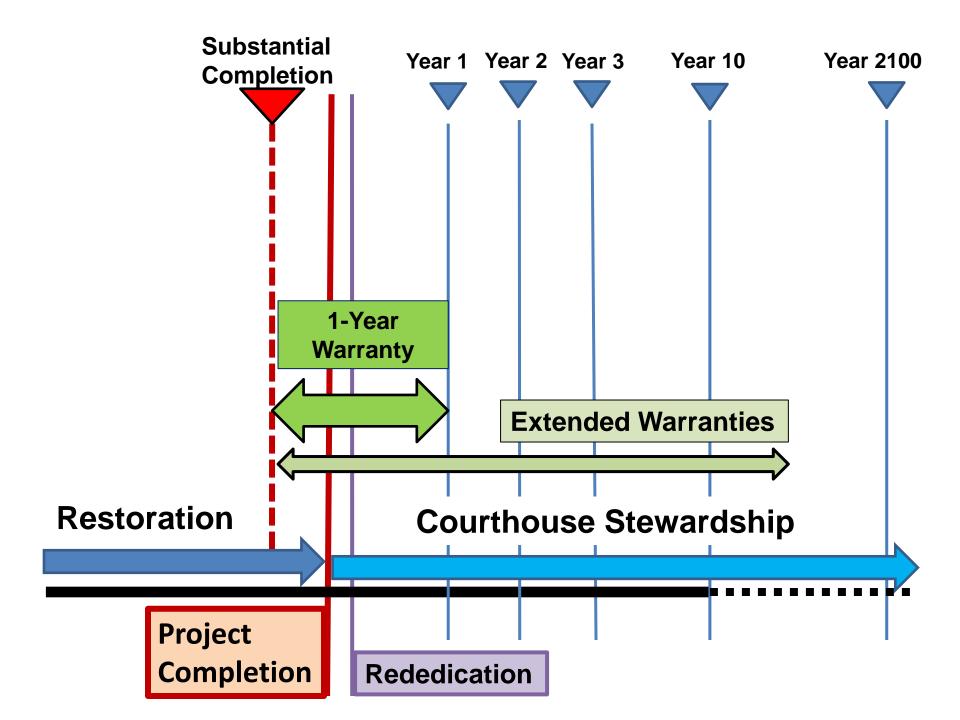




Dennis Cordes, THC
Texas Courthouse Stewardship Workshop
May 24-25, 2012
Austin, Texas

Managing the Transition from Restoration, Back to the County

- Managing the Conclusion of the Restoration
- Taking Full Advantage of Provisions in the Restoration Contract
- Preparing for Predictive & Preventive Maintenance of Restored Condition
- Setting Up Stewardship Library to Support Funding and Maintenance



Actively Build Your Stewardship Library

- Use as the Source of All Information about Your Courthouse
- Add to Your Library Continually Materials, Dates of Work, Costs, Contractors,
 Forecasting Preventive Work, Life Cycle of Systems and
 Materials, Maintenance History





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Transition Starts at **Substantial Completion**



Punch List Inspection

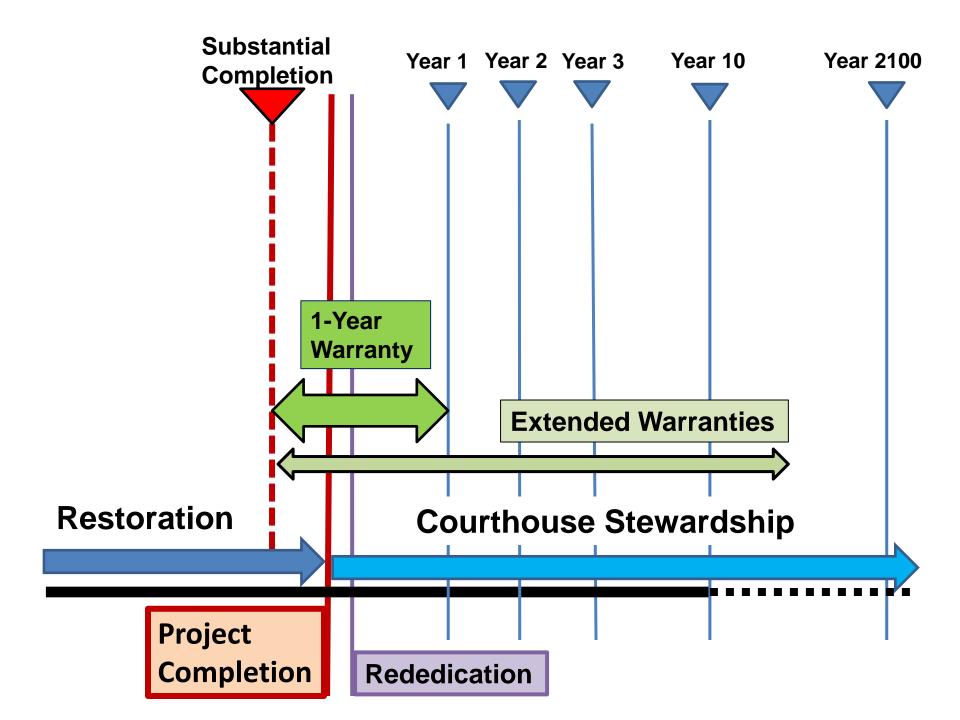
- Conducted Prior to declaring Substantially Complete
- Conducted by Architect & Engineer with Contractor, Project Manager, County Project Manager & Maintenance Supervisor, THC Project Reviewer

Transition Starts <u>Before</u> Substantial Completion Inspection



County Inspection

- To Be Full Participant in Substantial Completion Inspection
- County should conduct its own inspection list <u>Prior To</u> the formal Inspection
- Remember Construction
 Documents determine the
 Work Requirements and
 Completeness



Substantial Completion Date - Warranty Period Begins

| | TE OF TIAL COMPLETION | ON | OWNER ARCHITECT | 11810 AVC | | |
|--|--|--|--|---|--|--|
| AIA DOCUMENT | | | CONTRACTOR FIELD | 13 P A 93 | | |
| (Instructions on reverse side) | | | OTHER | # X 20 | | |
| nnounce. | | | PROJECT NO | 10 miles | | |
| PROJECT: | Llano County Courthouse | | PROJECT NO.: | VA # 009-20 | | |
| | 801 Ford Street Llano, Texas 78643 | | CONTRACT FOR: | Restoration OF | | |
| | | | CONTRACT DATE: | June 11, 2001 | | |
| TO OWNER: | Llano County | 100 | TO CONTRACTOR: | 7/03 | | |
| Name and address) | 801 Ford Street | | (Name and address) | Phoenix I Restoration and Construction, Ltd. | | |
| | Llano, Texas 78643 | | | 9411 Hargrove | | |
| | | | | Dallas, Texas 75220 | | |
| 14 | | | | 6 25 g 15 | | |
| | | • | | | | |
| | CE: August 6, 2002 SIGNATED PORTION SHAL | I INCLUDE | | | | |
| PROJECT OR DE | SIGNALED PORTION SHAL | L INCLUDE: | | | | |
| Il interior and extern yramidal roof caps. | or restoration as described in C | Construction Doc | ruments dated April 4, 2001, | EXCLUDING roof finials and | | |
| lote attached Subst | antial Completion Punch List of | work to be com | pleted prior to Final Complet | tion. | | |
| | | | | | | |
| A 50 | | | 10 | d above is hereby established as | | |
| which is also the da loof warranty as pro | ovided by Phoenix I Restoration | n and Constructi | 10 | | | |
| which is also the da loof warranty as pro | ovided by Phoenix I Restoration | n and Constructi | ion, Ltd. for sheet metal and | ocuments, except as stated below: | | |
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"...progress of the Work...is sufficiently complete...so the Owner can occupy the Work for its intended use. ...also the date of commencement of applicable

PROJECT OR DESIGNATED PORTION SHALL INCLUDE:

All interior and exterior restoration as described in Construction Documents da pyramidal roof caps.

Note attached Substantial Completion Punch List of work to be completed prio

The Work performed under this Contract has been reviewed and found, to the to be substantially complete. Substantial Completion is the stage in the progrethereof is sufficiently complete in accordance with the Contract Documents intended use. The date of Substantial Completion of the Project or portion to

August 1, 2002

which is also the date of commencement of applicable warranties required by

Roof warranty as provided by Phoenix I Restoration and Construction, Ltd. fo

A list of items to be completed or corrected is attached hereto. The failure to ine sibility of the Contractor to complete all Work in accordance with the Contractor.

County Warranty Management

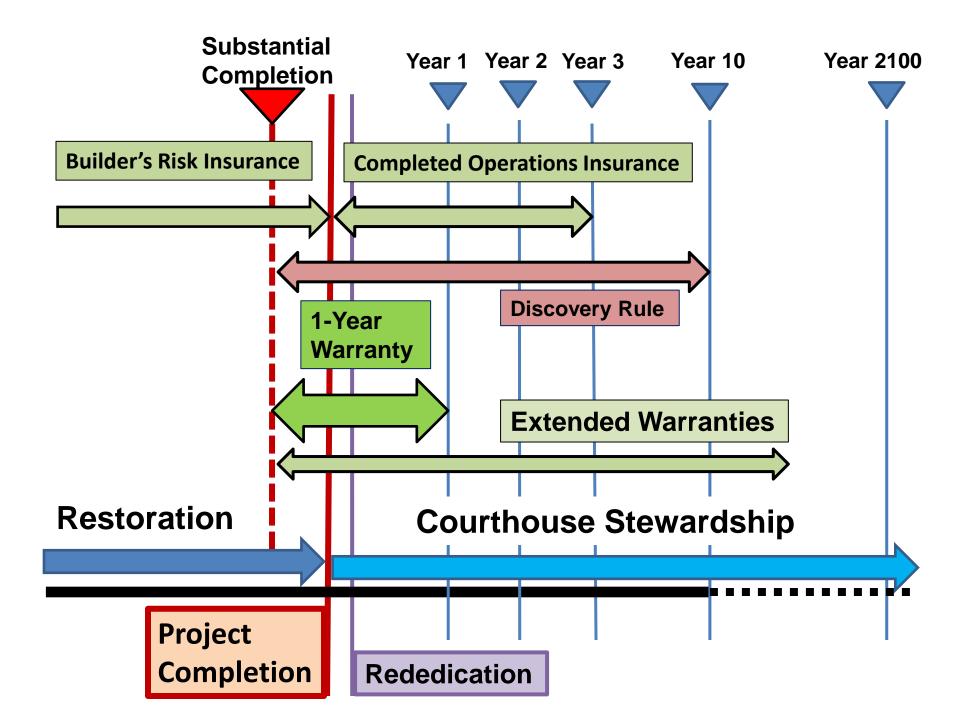
- Find Limits of Coverage & Length of Warranties
- Report Warranty Items IN WRITING! To General Contractor; copy Architect, Engineer, THC
- Provide written description and photographs
- Keep Record of all Correspondence with Contractor, Insurance Reps, Subs, A/E
- Require Repair to be in Compliance with Specs
- Work by others may voided the warranty
- Don't Wait to Report Problems

Managing the Transition from Restoration, Back to the County

- Managing the Conclusion of the Restoration
- Taking Full Advantage of Provisions in the Restoration Contract
 - Insurance
 - Drawings & Records
 - 1-Year Warranty Inspection
 - Extended Warranties
- Preparing for Predictive & Preventive Maintenance of Restored Condition
- Setting Up Stewardship Library to Support Funding and Maintenance

Contract Provisions Up To & Beyond Completion

- **♦ Insurance** Review terms & and expirations
- Builder's Risk Insurance Coverage for loss or damage during Restoration; ends with final payment.
- Completed Operations Insurance 2 or 3 year coverage for injuries or damage to property occurring <u>after</u> the Restoration resulting from flawed materials or installation.
- Discovery Rule" Discovery of defects in materials or workmanship discovered before the 10th anniversary of the Substantial Completion date.



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Contents of Basic Stewardship Library





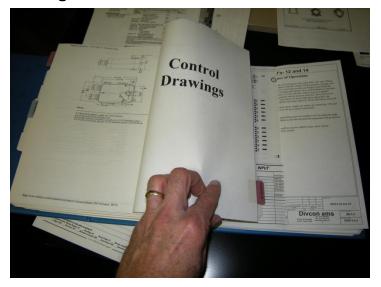
Basic Library Intentionally Provided by Restoration Process

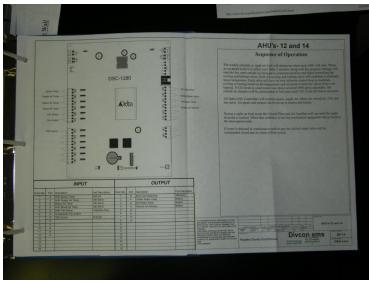
- Restoration "Completion Report"
- Closeout Documents As-Built Drawings, Submittals, Shop Drawings, Progress Photos, Restoration Bid Documents / Cost Breakdown/ Pay Applications, Assessments & Technical Analysis, O&M Manuals

Prior Documents

- Master Plan
- Original & Past Remodeling Drawings & Specs
- Photograph Collection Earliest through Pre-restoration

Operation & Maintenance Manuals





- Restoration Specifications List Manuals & Training
- Insure Adequate Training, Utilizing Manuals
- Manuals May be On-Line
- Arrange Retaining Periodically
- Train Back-up Staff





Information for Early Maintenance Needs

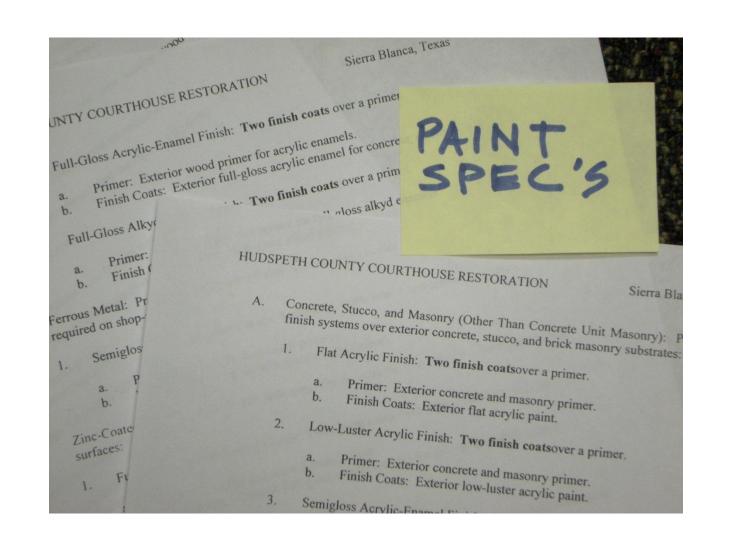


Paint Schedule for Maintenance





Paint Specifications



Submittals, Samples Material, Extra Materials Example – Paint Materials



More than 6 colors in this tower photo alone – Bosque CCH

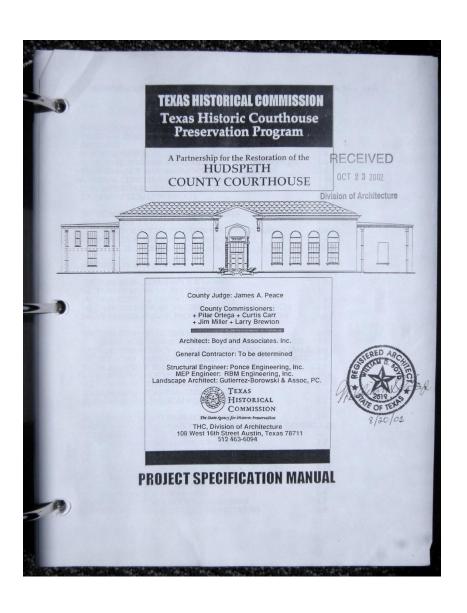
Numerous & detailed photographs taken after completion will help with future painting needs.

Verify Final Paint Schedule

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Managing 1-Year & Extended Warranties



Find Warranties in Project Specifications & Completion Report

CSI MASTERFORMAT 1995 EDITION Master Format was composed of 16 primary divisions:

Division 01 — General Requirements

Division 02 — Site Construction

Division 03 — Concrete

Division 04 — Masonry

Division 05 — Metals

Division 06 — Wood and Plastics

Division 07 — Thermal and Moisture Protection

Division 08 — Doors and Windows

Division 09 — Finishes

Division 10 — Specialties

Division 11 — Equipment

Division 12 — Furnishings

Division 13 — Special Construction

Division 14 — Conveying Systems

Division 15 — Mechanical

Division 16 — Electrical

1 - Year Warranty Inspection







1-Year Warranty Management

- Find limits of coverage & time covered
- Report Warranty Items IN WRITING! To General Contractor; copy Architect, Engineer, THC
- Provide written description and photographs
- Keep record of all correspondence with Contractor, Insurance reps, Subs, Architect and Engineers
- Require repair to be in compliance with specs
- Work by others may voided the warranty
- Don't wait to report problems

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EXTENDED WARRANTIES –



Roof Extended Warranty Example

Specs.-20yr. Manufacturer's Warranty

HUDSPETH COUNTY COURTHOUSE RESTORATION

Sierra Blanca, Texas

1.9 PROJECT CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.10 WARRANTY

- A. Special Warranty: Manufacturer's standard form, without monetary limitation, in which manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period. Failure includes roof leaks.
 - 1. Special warranty includes roofing membrane, base flashings, roofing membrane accessories fasteners and other components of roofing system.
 - 2. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the

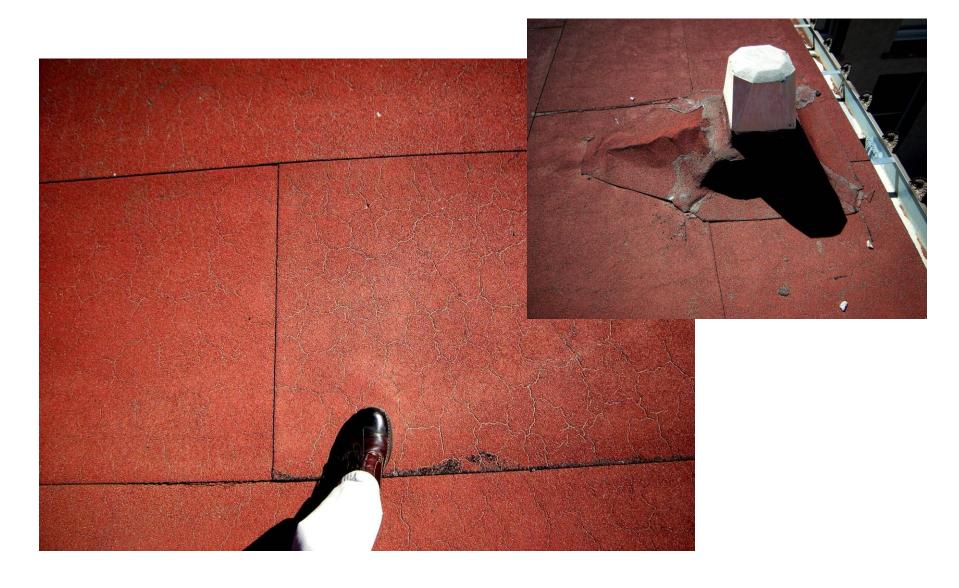
Specs. – 20yr. Installers Warranty

HUDSPETH COUNTY COURTHOUSE RESTORATION

Sierra Blanca, Texas

- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.
- 3.11 ROOFING INSTALLER'S WARRANTY
 - A. WHEREAS < Insert name > of < Insert address >, herein called the "Roofing Installer," has performed roofing and associated work ("work") on the following project:
 - 1. Owner: Hudspeth County, Texas.
 - 2. Address: Sierra Blanca, Texas
 - 3. Building Name/Type: Hudspeth County Courthouse.
 - Address: Sierra Blanca, Texas.
 - 5. Area of Work: Entire Roof.
 - Acceptance Date: <Insert date.>
 - 7. Warranty Period 20 years.
 - 8. Expiration Date. Ansert date.
 - B. AND WHEREAS Roofing Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against leaks and faulty or defective materials and workmanship for designated Warranty Period,
 - C. NOW THEREFORE Roofing Installer hereby warrants, subject to terms and conditions herein set forth, that during Warranty Period he will, at his own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a watertight condition.
 - D. This Warranty is made subject to the following terms and conditions:
 - 1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:
 - a. lightning;
 - b. peak gust wind speed exceeding 90 mph (m/sec);
 - c. fire;
 - failure of roofing system substrate, including cracking, settlement, excessive deflection, deterioration, and decomposition;

20-Yr. Roof Warranty?



After 5 yrs. Will It Last 20 years?

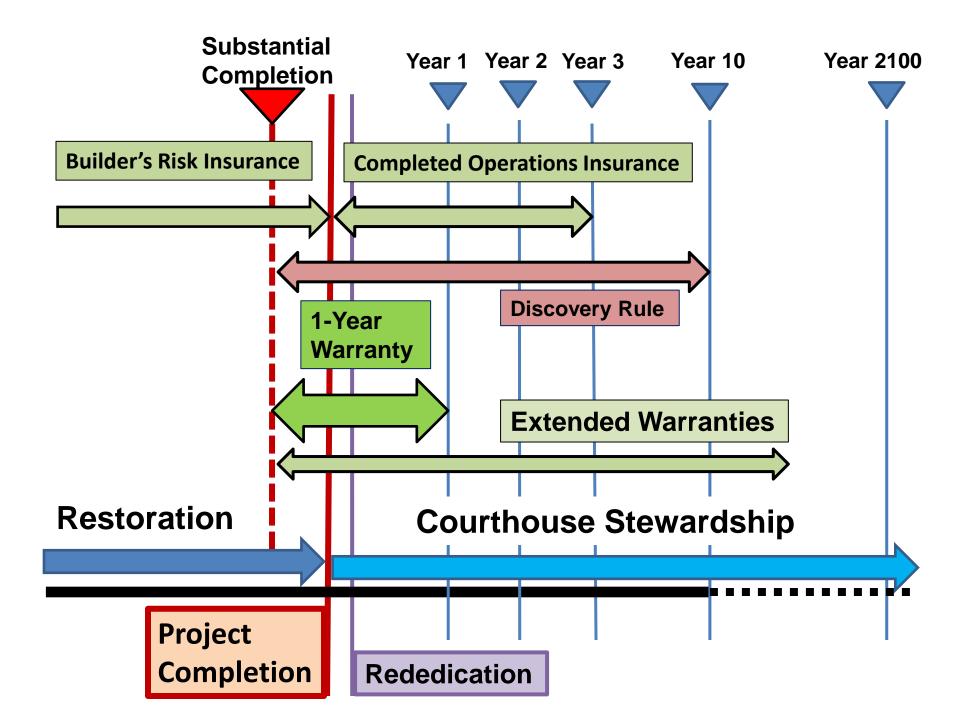


Extended Warranty Reference Sheet (beyond General 1-year Warranty)

| | Length of | | | |
|--|-----------|------------|----------|---------------------------------|
| Material, Installer, or System Warranty | Warranty | Start Date | End Date | Contractor Contact Info & Notes |
| (Examples) | | | | |
| Roofing - | | | | |
| Flat Roof - Type 1, Material and/or Installer | | | | |
| Sloped Roof - Type 2, Material and/or Installer | | | | |
| Sheet Metal Flashing | | | | |
| Roof/Tpwer Paint | | | | |
| Specialized Roof Paint | | | | |
| Plumbing - | | | | |
| Plumbing Fixtrues | | | | |
| Plumbing Valves & Faucets | | | | |
| HVAC - | | | | |
| Hydronic water treatment service | | | | |
| Boilers, Heat Exchangers | | | | |
| Air Cooled Water Chillers | | | | |
| Fan Coil Units and Motors | | | | |
| Controls System | | | | |
| Fire Alarm System Equipment | | | | |
| The Figure 1 and 1 | | | | |
| Elevator Equipment | | | | |
| Door Hardware & Closures | | | | |
| Door Hardware & Closures | | + | | |
| Clock & Bell | | + | | |
| | | | | |
| Mirror Silver Spoilage | | | | |
| | | | | |
| | | | | |

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Life Expectancy & Maintenance Planning

- Planning Tool to Forecast Costs
- Regular Maintenance Makes Cost More Predictable
- Preventive Maintenance
 Intentionally Extends Expected Life
- Plan to Use Dollars Wisely Using a Long-Term View of Maintenance



Fan Coil Unit

HVAC System Components





Circulating Pumps

Heat Pump

HVAC – Hydronic System Chiller





Roof Repair and Replacement



Life Expectancy Components & Systems *

Rough Estimate Examples -

2-5 Years

- Light Fixture Re-lamping
- Exterior Paint
- Window Paint

5-10 Years

- Sealants
- Window Repair
- Condensate pumps

8-10 Years

Emergency Lighting Batteries

15-20 Years

HVAC Systems

- Heat Pump & Split Systems
- Roof Top Package Units

Other

- Single-Ply Membrane Roofing
- Build-up Roofing
- Asphalt Shingles
- Circulating Pumps
- Water Heater
- Security Systems / Video

20-25 Years

- HVAC Fan coil units
- Plumbing Faucets
- Exhaust Fans
- Modern Door Hardware
- Fire Alarm System

30-50 Years

HVAC Systems

- Hydronic Chillers & Boilers
- Hydronic Piping
- Ground Source Heat Pump

Other

- Fire Sprinkler System
- Historic Window & Door Hardware
- Electrical & Telecom
- Sheet Metal Roofing & Flashing

40-50 Years

Elevator

50-75 Years

- Wood Floors
- Clay / Concrete Tile Roofing
- Slate Roofing

* With Regular Maintenance

Final Cost Analysis – Doors & Windows

Find in Completion Report

| c. Other | 1 | \$59,610.00 | (custom cabinets) |
|--------------------------------|--------------|--------------|--|
| 7. Thermal & Moisture | | | |
| Protection | | | |
| a. Roof | | | See metals for additional roofing |
| Metal roofing | \$88,800.00 | \$32,542.00 | General roof/flashing - sub |
| Downspouts | \$5,000.00 | | Allow |
| d. Insulation & damp proofing | \$7,500.00 | | Insulation allow |
| e. Other | \$6,930.00 | \$8,637.00 | Sealants at doors and windows |
| 8. Doors & Windows | | | |
| a. Exterior Doors | \$15,000.00 | | New doors at entries |
| b. Interior Doors | \$40,215.00 | | Wood door restoration and replacement |
| | | ē | (final pay app. gave lump sum for doors) |
| | | \$7,200.00 | (all glass storefront) |
| c. Windows | | | |
| Demo existing | \$1,750.00 | | Demo existing non-historic windows |
| New windows | \$229,910.00 | | Replicate |
| | | \$310,680.00 | (final pay app. gave lump sum for windows) |
| d. Door and Window Hardware | \$48,800.00 | \$51,200.00 | Restore/replace |
| 9. Finishes | 15 | | |
| a. Exterior | n/a | | n/a see paint |
| b. Interior | | | · |
| Plaster | \$75,000.00 | \$200,900.00 | Restore |
| Floors | \$84,980.00 | | Restore (includes tile and concrete floors) |
| Paints and coatings | \$205,000.00 | \$112,277.00 | Inc paint analysis (includes painting stair) |
| c. Other | | \$48,250.00 | (drywall) |
| 10. Specialties | | | |
| a. Restroom specialties | \$3.675.00 | \$5,350.00 | Fixtures and partitions |

Restoration
Project
Windows Cost
\$3,500 each

Restoration
Project Doors
Cost \$6,000
pair

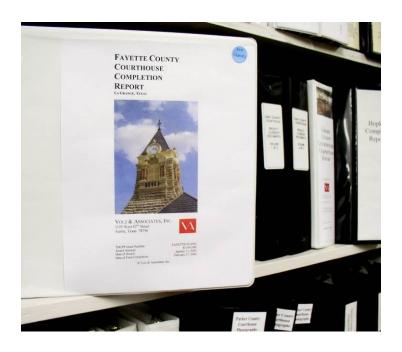
Managing the Transition from Restoration, Back to the County

- Managing the Conclusion of the Restoration
- Taking Full Advantage of Provisions in the Restoration Contract
- Preparing for Predictive & Preventive Maintenance of Restored Condition
- Setting Up Stewardship Library to Support Funding and Maintenance

Actively Build Your Stewardship Library

- Use as Source of All Information about Your Courthouse
- Add to Your Library Continually Materials, Dates of Work, Costs, Contractors, Forecasting Preventive Work, Life Cycle of Systems and Materials, Maintenance History
- Gift to Future Courthouse Stewards





Restoration Accomplished -

- Your Restoration corrected & restored most deteriorated conditions
- The Restoration may have only returned the CCH back to "a maintainable condition"
- Maintenance begins immediately and goes on for the long future – the goal of the restoration!
- Maintenance of a CCH requires continual management to stay on top of the conditions

Courthouse Stewardship is about the County's Future

- Maintaining Restoration Appearance
- Maintaining Full Function
- Controlling Costs thru Planned and Preventive Maintenance
- Maintain County Constituent Support for Funding Maintenance
- Fostering Tourism and Good Business Climate
- Increasing County Image and Pride
- Gift to Future Stewards, Officials & County Residents

Managing the Transition from Restoration Back to County

A Look to the

Future-







